



Advanced Manufacturing Career Pathway (IAC Code 15.06)
Milwaukee 7 Region
2024-2027



Educational Level (May require work experience, experience which could assist with advancement, and educational levels may vary by employer)	Production, Fabrication and Quality Assurance	Engineering, Design and Automation	Industry 4.0	Industrial Maintenance	Supply Chain	Health, Safety, and Environmental Assurance
High School Diploma/Equivalency	Engine/Machine Assembler ★ ● General Laborer Shipping & Receiving Clerk ● Finishing (Paint Tech, Sand/Bead Blasting) ● Packager ★ Assembly ● Maintenance Mechanic ★ ●					
Additional Training, Certification or Technical Diploma	CNC Machinist ★ ● Welder ★ ● Industrial Electrician Industrial Machinery Mechanic ★ Production Technician ● Quality Control Analysts ● Field Service Technician	Quality Assurance Technician ● Electronic Service Technician Solderer ★	Quality Assurance Technician Solderer Robotic Welder Robotics Technician ●	Electrical Engineering Technician ★ ● Industrial Engineering Technician ● Industrial Maintenance Mechanic ★ ●	Robotics Technician ● Inventory Control Production Planner	Environmental Specialist Industrial Engineering Technician ●
Registered Apprenticeship	CNC Technician ● Electrical and Instrumentation Technician Electrical Discharge Machining Technician Industrial Electrician ● Industrial Manufacturing Technician ● Industrial Pipefitter ● Instrument Mechanic Lubrication Technician Machinist ● Machine Repairer ★ Maintenance Mechanic ★ ● Maintenance Technician ● Mechatronics Technician ● Millwright Mold Maker Sheet Metal - Industrial ● Tool Maker Tool and Die Maker ● Welder-Fabricator ★ Millwright/Pipefitter ● Pattern Maker					
Associate Degree (or equivalent experience)	Manufacturing Machine Operator ● CNC Programmer ★ ● Manufacturing Technician ● Welder ★ ● Millwright ● Industrial Machinery Mechanic ● Food Science Technician ● Industrial Electrician ●	Electrical Designer Mechanical Designer Electronics Technician ● CNC Programmer ★ ●	Integration Specialist Cybersecurity Specialist ● Electronics Engineering Technician ● Computer Network Specialist ● Manufacturing Engineer Technician ● Business Analyst ●	Maintenance Manager ★ Robotics Programmer ● Mechanical Engineering Technician ● Electrical Engineer Technician ★ ● Electro-mechanical Technician ★	Logistics Analyst ● Materials Planner Materials Manager Purchasing Agent ●	Environmental Health and Safety Leader ●
Bachelor Degree and Beyond	Manufacturing Manager ● Operations Manager ● Quality Control Systems Managers ● Industrial Engineer ● Manufacturing Engineer ●	Electrical Engineer ★ ● Automation Engineer ● Mechanical Engineer ● Quality Assurance Engineer ● Product Designer Process Engineer Chemical Engineer ●	Data Scientist ● Quality Assurance Engineer ● Automation Leader ● Process Engineer Business Intelligence Analyst Computer Scientist ● Computer Systems Engineer	Industrial Engineer ● Manufacturing Engineer ● Electrical Engineer ★ ●	Buyer ● Supply Chain Analyst ● Procurement Manager ● Data Warehouse Analyst Import/Export Specialist ● Logistics Manager ●	Environmental Engineer ● Safety Team Leader ● Safety Engineer ● Ergonomist ●
Postsecondary Options	Click HERE for Postsecondary Options					

★ BRIGHT OUTLOOK = these jobs are expected to grow in the future ● XELLO = you can learn more and save this job in Xello (note: some job titles might look a little different in Xello)



**Advanced Manufacturing Career Pathway (IAC Code 15.06)
At Kenosha Unified School District**



Career and Technical Education Courses (Wisconsin Standards for Technology and Engineering)	Comprehensive High Schools			LakeView Technology Academy		
	<u>Industry 4.0</u> - Intro to Mechatronics - Intro to Industrial Controls - Intro to Industrial Robotics - Industrial Internet of Things	<u>Engineering, Design, & Automation</u> - CAD: Beginning - Engineering Essentials - PLTW - Intro to Engineering Design - PLTW - Principles of Engineering - PLTW - Computer Integrated Manufacturing - PLTW - Engineering Design & Development - PLTW	<u>Production & Fabrication</u> - Manufacturing Processes 1 - Manufacturing Processes 2 - Welding	Manufacturing Pathway		
Other Recommended Courses (Wisconsin Career Readiness Standards)	Digital Electronics - PLTW Employability Seminar Intro to Data Science			Quantitative Reasoning Physics Chemistry		
Career and Technical Student Organization	SkillsUSA					
Work-Based Learning Options	Employability Skills - WI DPI (90 hours) Youth Apprenticeship - Manufacturing - WI DWD (450 hours/year; 1-2 years)					
Industry Recognized Credential Options	Production, Fabrication and and Quality Assurance	Engineering, Design and Automation	Industry 4.0	Industrial Maintenance	Supply Chain	Health, Safety, and Environmental Assurance
	OSHA 10 - General Industry Version	Dremel 3D Idea Builder Certification		Snap-on: Precision Measurement Instruments Certification (PMI)		
	Snap-on: Multimeter Certification	Snap-on: Torque Certification		Tormach XS-Router Desktop CNC Mill Certification		
	Snap-on: Hand Tool Identification and Safety Certification			Snap-on: Electricity Introduction Certification		
	Autodesk Certified User - Autodesk AutoCad, Autodesk Inventor - Imperial or Metric, Autodesk Fusion 360			SACA: Smart Automation Certification Alliance - C-101 Basic Operations, C-102 Advanced Operations, C-103 Robot Systems Operations, C-104 IIOT		
College Credit Opportunities (You can find the list of college credit opportunities HERE . Identify the school and then click "college credit opportunities")	College Courses Offered at Your High School					
	Transcripted Credit (TC) - Intro to Mechatronics* - Gateway Technical College - Intro to Industrial Controls* - Gateway Technical College - Intro to Industrial Robotics* - Gateway Technical College - Intro Industrial Internet of Things* - Gateway Technical College - Intro to Engineering Design - Gateway Technical College <i>*Students who complete all four courses may receive a Introduction to Industry 4.0 certificate form Gateway Technical College and can be applied to multiple programs</i>			Advanced Placement (AP) - AP Statistics - AP PreCalculus - AP Calculus - AP Physics AP Exams accepted at GTC AP Exams accepted at UW-Parkside		
	College Courses You Can Take at a College Campus					
	Application Deadlines: October 1st: Spring Courses		February 1st: Summer Courses (ECCP only)		March 1st: Fall Courses	

Start College Now (SCN) - Gateway Technical College

- [Manufacturing Pathway College Credit Opportunities](#)
- [Please Review KUSD's Dual Credit Website](#)

Early College Credit Program (ECCP)

- [Manufacturing Pathway College Credit Opportunities](#)
- [Please Review KUSD's Dual Credit Website](#)